

Assignment

Advanced Algebra – Section 1-5 Absolute Value Inequalities

Name Key hr

Finish
The rest

From Practice WS 1-5 (#4-12): Solve each inequality. Graph the solutions.

4. $|x + 5| > 12$

5. $|k - 3| \leq 19$

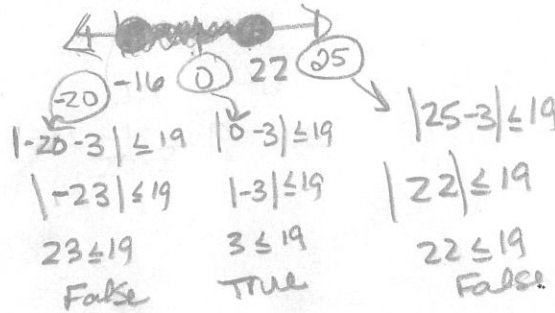
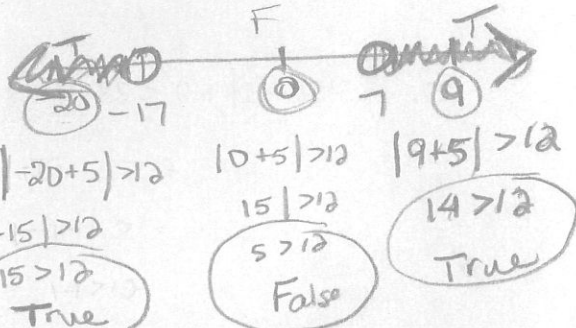
6. $|x + 2| \geq 0$

$x + 5 = 12$ $x + 5 = -12$

$x = 7$

$x = -17$

$k - 3 = 19$ $k - 3 = -19$
 $k = 22$ $k = -16$



7. $\frac{2|t - 5|}{2} < \frac{14}{2}$

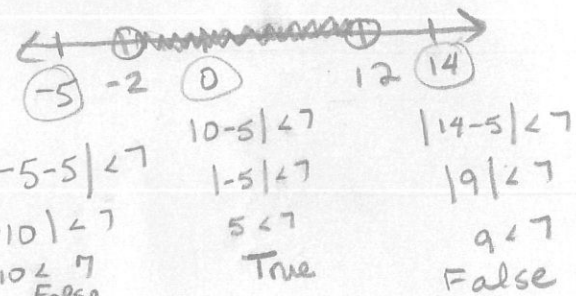
8. $|3x - 2| + 7 \geq 11$

9. $5|2b + 1| - 3 \leq 7$

$|t - 5| < 7$

$t - 5 = 7$
 $t = 12$

$t - 5 = -7$
 $t = -2$



10. $|2 - 3w| \geq 4$

11. $-3|7m - 8| < 5$

12. $|2u| > 6$

From pg 36 (17-27 odd, 44-52 even): Solve each inequality. Graph the solutions.

17. $|x - 5| \geq 8$

19. $|2x + 1| \geq -9$

21. $|3z| - 4 > 8$

23. $|6y - 2| + 4 < 22$

25. $\frac{1}{4}|x - 3| + 2 < 1$

27. $3|5t - 1| + 9 \leq 23$

44. $|3x - 4| + 5 \leq 27$

46. $-2|x + 4| < 22$

48. $|3z + 15| \geq 0$

50. $\frac{1}{9}|5x - 3| - 3 \geq 2$

52. $\left|\frac{x-3}{2}\right| + 2 < 6$